

CHEMICO-BIOLOGICAL INTERACTIONS

CONTENTS

VOLUME 71 (1989)

Review Article

The role of iron in oxygen radical mediated lipid peroxidation
by G. Minotti and S.D. Aust (Rome, Italy and Logan, UT)..... 1

Inhibition of oxidative phosphorylation by organotin thiocarbamates
by S. Chandra, G.M. Polya, B.D. James and R.J. Magee (Bundoora, Australia)..... 21
Pentachlorophenol-induced changes of ζ -potential and gel-to-fluid transition temperature in
model lecithin membranes
by P. Smejtek, A.W. Barstad and S. Wang (Portland, OR)..... 37
DNA damage, cytotoxicity and free radical formation by mitomycin C in human cells
by L. Dusre, J.M. Covey, C. Collins and B.K. Sihna (Bethesda, MD)..... 63
Cytotoxicity of cysteine S-conjugates: Structure-activity relationships
by S. Vamvakas, A. Köchling, K. Berthold and W. Dekant (Wurzburg, F.R.G.)..... 79
Amphotericin B-induced damage of *Trypanosoma cruzi* epimastigotes
by R.M.T. Haido and E. Barreto-Berger (Rio De Janeiro, Brazil) 91

Review Article

Structure-activity relationships among mycotoxins
by V. Betina (Bratislava, Czechoslovakia)..... 105

Glutathione depletion and cytotoxicity by naphthalene 1,2-oxide in isolated hepatocytes
by M. Buonarati, D. Morin, C. Plopper and A. Buckpitt (Davis, CA)..... 147
Induction of DNA double-strand breaks in Chinese hamster V79 cells by 2-chlorodeoxy-
adenosine
by K. Tanabe, W. Hiraoka, M. Kuwahara, F. Sato A. Matsuda and T. Ueda (Sapporo,
Japan) 167
Time course of selenite metabolism in confluent cultures of mouse mammary epithelial
cells
by D.G. Morrison and D. Medina (Houston, TX)..... 177
Alteration of precocene II-induced hepatotoxicity by modulation of hepatic glutathione
levels
by S.K. Duddy and M.T.S. Hsia (Madison, WI) 187
Effect of thiols on lipid peroxidation by rat liver microsomes
by G.R.M.M. Haenen, N.P.E. Vermeulen, H. Timmerman and A. Bast (Amsterdam, The
Netherlands) 201
Reduction of hexavalent chromium in a reconstituted system of cytochrome P-450 and
cytochrome b_5
by A. Mikalsen, J. Alexander, R.A. Andersen and H.-L. Daae (Oslo, Norway)..... 213
Structure-activity relationships of airway irritating aliphatic amines. Receptor activation
mechanisms and predicted industrial exposure limits
by G.D. Nielsen and M. Yamagawa (Copenhagen, Denmark) 223
The in vitro interaction with DNA of several hypoxic radiosensitizers
by L. Santos Peinado, P. Cornago Ramirez and C. Lopez Zumel (Madrid, Spain)..... 245
 O^6 -Methylguanine-DNA methyltransferase activity in tissues and cells of the rat respiratory tract
by J.A. Bond, J.M. Gubin and N.F. Johnson (Albuquerque, NM) 255

In vitro and in vivo modulation of the bioactivation of 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone in hamster lung tissues by M. Charest, G. Rossignol and A. Castonguay (Quebec City, Canada).....	265	
Effects of fluorine substitution on the DNA binding and tumorigenicity of benzo[b]-fluoranthene in mouse epidermis by E.H. Weyand, S. Amin, K. Huie, E. Boger, E. Neuber, S.S. Hecht and E.J. LaVoie (Valhalla, NY).....	279	
Lipid peroxidation-dependent and -independent protein thiol modifications in isolated rat hepatocytes: Differential effects of vitamin E and disulfiram by P. Dogterom, G.J. Mulder and J.F. Nagelkerke (Leiden, The Netherlands).....	291	
Announcement.....	307	
Corrigendum.....	309	
<i>Review Article</i>		
Footprinting analysis of sequence-specific DNA-drug interactions by J. Portugal (Barcelona, Spain).....	311	
Biotransformation of terodiline. V. Stereoselectivity in hydroxylation by human liver microsomes by B. Norén, S. Strömberg, O. Ericsson and B. Lindeke (Huddinge, Solna and Stockholm, Sweden).....		325
Effects of <i>tert</i> -butyl hydroperoxide on promotable and non-promutable JB6 mouse epidermal cells by D. Muehlematter, T. Ochi and P. Cerutti (Lausanne, Switzerland).....	339	
Use of host cell reactivation of cisplatin-treated adenovirus 5 in human cell lines to detect repair of drug-treated DNA by K.R. Maynard, L.K. Hosking and B.T. Hill (London, U.K.).....	353	
Developmental changes in hepatic activation of dietary mutagens by mice by W.E. Brennan-Craddock, S. Neale, A.K. Mallett and I.R. Rowland (London and Carshalton, U.K.).....	367	
Irreversible inhibition of rat hepatic glutathione S-transferase isoenzymes by a series of structurally related quinones by R.M.E. Vos, B. Van Ommen, M.S.J. Hoekstein, J.H.M. De Goede and P.J. Van Bladeren (Wageningen and Zeist, The Netherlands).....	381	
Metabolism of 3-methylcholanthrene in rat liver cytosol by S.R. Myers, J.W. Blake and J.W. Flesher (Lexington, KY).....	393	
Subject Index Volume 71 (1989).....	403	
Author Index Volume 71 (1989).....	407	
Contents Volume 71 (1989).....	409	

